

METHOD OF CONTROLLING CARRIER HEAD WITH MULTIPLE CHAMBERS

Abstract

5 A carrier head with a flexible member connected to a base to define a first chamber, a
second chamber and a third chamber. A lower surface of the flexible member provides a
substrate receiving surface with an inner portion associated with the first chamber, a
substantially annular middle portion surrounding the inner portion and associated with the
second chamber, and a substantially annular outer portion surrounding the middle portion
and associated with the third chamber. The width of the outer portion may be significantly
10 less than the width of the middle portion. The carrier head may also include a flange
connected to a drive shaft and a gimbal pivotally connecting the flange to the base.

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